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: rounded, polished, smooth, fine, elegant in Latin

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Introduction

Congratulations on purchasing Magus – one of the finest monitor loudspeakers ever made. We hope that magic of Magus will reveal the best of your music collection and provide many listening pleasures for years to come. It's all about music after all.

Teresonic Magus monitor speakers are designed to produce the most natural sound of exceptional clarity and levels of detail, neutrality and stereo imaging that are beyond anything else in their category. That is accomplished using unique and very advanced acoustic design, the finest components and materials available, and by avoiding every unnecessary component or gimmick that can introduce sound coloration, interference or distortion – leading to musical reality of a concert hall or a jazz club transferred to your listening room.

New life for your music yet perfectly *natural*

Every sound source in nature is “punctual” radiating sound waves around them – whether it’s a violin, a trumpet, or a human voice. Teresonic speakers follow that basic design rule of the Nature. Conventional multi-driver designs are based on the idea that it’s fine to divide up the frequency range to be reproduced by using a crossover to assign parts of the frequency range to different drivers. This introduces multiple interfering sound sources (speaker drivers in the cabinet) which lead to complex and unpredictable cancellations and reinforcements between sound waves – leading to sound coloration, and distortion. In addition, musical instruments or human voices reproduced by multiple sources, each source (driver) with its own location, timing and resonances, creates lack of “coherence”.

This lack of coherence in multi-way speakers creates a problem for the human ear as it tries to identify the stream of musical data and send it to the brain to compose many elements into a perceptual whole that we experience as music. While the human brain is incredibly capable, the parts that do not fit well alert the brain that there is something wrong – and this can cause listening fatigue. This is often an issue, even with high-end multi-way systems.

Teresonic single-driver design using full range, very high-efficiency drivers, provides natural sound with a wealth of detail, coherence, exceptional dynamic range and a sense of musical “aliveness” that you seldom hear elsewhere.

DESIGN CUSTOMIZATION

The challenge is to make speakers that we can call transcendental - something that breaks boundaries and creates emotion, but keeps the sound natural and intact, as it was in the concert hall or a recording studio. Teresonic speakers operate legendary Lowther full-range speakers without crossovers. Conventional designs put a crossover in the mid-range to split the signal between the bass driver and the tweeter. This is exactly the range where human hearing is most sensitive. These crossovers introduce phase and balance changes that cause deterioration in coherency, transparency and imaging. Even worse, most speakers go from a cone driver for the bass to a tweeter with totally different sonic characteristics, such as a dome or ribbon tweeter.

The ability of the Teresonic speakers to speak across the full frequency spectrum with one voice, and with such speed and lack of coloration, makes them seem all the more electrostatic. In the end, however, Teresonic speakers will play much louder than all except the largest electrostatic speakers. They are so fast that you can hit them with hard transients and they not only do not flinch, they start and stop on a dime and deliver the full frequency and dynamic range of the signal. It is actually kind of hard to truly convey the full abilities of these speakers.

Big performance even at 4 Watts per channel

Traditional monitors are usually rated at 86-88 db and require at least 20 Watts of power. The ultra-high 98 db efficiency of Magus speakers enables low power amplifiers, or high power amplifiers operated at low power levels, to achieve realistic sound levels in most – not just the smallest - rooms. The Teresonic will sound outstanding and play plenty loudly with an 8 wpc 300B-based tube stereo amplifier, as well as a 25 wpc 845-based tube amplifier, or any other SET designs. They also sound excellent when powered by a set of the push-pull monoblocs that are rated at 100 wpc. With Teresonic speakers even sonic gems such as 3 wpc 2A3-based amplifiers will deliver big performance. If 1 watt is good for 98 db, then 4 watts are good for a peak output of about 104 db and 8 watts of about 107 db at one meter distance - and with the lowest distortion you have ever heard in a loudspeaker.

Higher power solid-state amplifiers will benefit from operating on low power levels where the distortions are lowest – or almost non-existent. Despite manufacturers “paper specifications” even the finest high-end amplifiers will introduce some sound distortions and colorations when played at high power levels. This is driven by laws of physics and various components’ characteristics that vary at different load levels. Higher the load, more stress on the component, more difficult for designer to get perfect results – even harder at the high end. The simple solution is to operate at lower power levels and enjoy your music unspoiled, as it was created in its natural environment, and still have the big performance sound of concert hall.

Exceptionally detailed and clean sound

The unique Magus design, the result of some 20 years of research and experimentation, and Lowther’s speed and accuracy are key for Teresonic speakers’ extremely clean and accurate midrange, the widest range of sound audible to our ears, with tight low frequencies. It is also the simplest, purest, most uncolored approach to design a system which allows the speaker drivers to operate in "free air," duplicating the motion of sound waves emanating from both sides of a musical instrument in live performance.

The full-range, single-driver, no-crossover Magus design is the outstanding example of detailed and crystal clear sound already established in Teresonic Ingenium and Integrum series, combined with a flair for reproducing

DESIGN CUSTOMIZATION

every type of music from rock to opera, jazz through folk. They have quite a punchy low end for their size. Drums and percussion are reproduced with stunning weight and clarity. Notice precise duration and fine separation between tones compared to overlapping and 'lingering' tones reproduced by most of traditional multi-driver designs – regardless of their size or price range. You will find Magus speakers amazing – very neutral, yet extremely clear and articulate.

Designed & handcrafted to endure the test of time

Form follows function and our enclosures are very attractive, sculpture-like shapes – a welcome addition to any room. Any way you consider them – as a piece of art that sounds great or great sounding speakers in an eye pleasing package, Magus monitors are built entirely by hand to highest standards using the finest materials available. High gloss finish, applied in several layers of highest-quality Italian varnish, enhances the natural wood veneer and superb craftsmanship that one may expect from the finest cabinet makers and in speakers costing thousands more.

Designed like the finest music instrument, such as violin or cello, Magus' elegant cabinet is specially shaped and wall damped, ensuring that its internal structure resonates, vibrates and breathes at low frequencies as do fine musical instruments. Special internal wall-damping and the port tune frequency has been adjusted accordingly for optimal bass performance. The Magus cabinet may look deceptively simple but requires careful handcrafting, with unique oval shapes and several critically damped and acoustically tuned compartments (chambers), partitions and screens brought together by the skillful hands of our cabinetmakers.

True high end speakers such as Teresonic, need top quality drive units. We use the top of the line DX-series of legendary Lowther drivers, considered the Rolls-Royce of the speaker industry, that are hand-made by Lowther-Voigt Ltd in England. They incorporate extremely powerful magnets and ultra-light paper cones, leading to extraordinary efficiency, transient response, and low distortion. They are possessed of a stunning sense of aliveness and vitality, and have a degree of sonic invisibility that is both seductive and addictive.

Many high-end speakers on the market will use standard wiring inside the box between drivers and connectors in the back of the box. Not so with Teresonic speakers. They are equipped with the worlds best WBT connectors and the same high-end Clarison cables inside the box that are offered to connect to your amplifier. Matching speaker cables and wiring inside the box is also important to maintain the same sonic character in the entire audio chain – from your amplifier to the speaker and the drive-unit.

Unpacking Instructions

Important! Before you start unpacking, inspect the outer carton for any signs of shipping damage. If you see or suspect that there is damage, inform the seller as soon as possible.

Your Teresonic speakers were shipped in heavy duty carton boxes and Styrofoam molds for safe transportation. If the shipping carton looks intact, proceed with unpacking starting at “OPEN THIS SIDE” and removing the Styrofoam cover. It is recommended that you save the boxes and other packing material such as cotton bags that are protecting the fine lacquer on your speakers for possible future use.

At this time, please fill out the warranty card on the internet (www.teresonic.com/warranty), putting both serial numbers and the date of purchase on the card. The serial numbers are on the rear of the speakers below the input terminals and on your invoice.

Contents

The shipping box contains the following items: 1)One pair of Magus loudspeakers, 2)One pair of removable grilles, 3)The owner’s manual, and 4)Three adjustable spikes and floor discs. If you purchased Teresonic’s Clarison speaker cables they can be found in the same box.

Installation and Wiring

Before making any connections always _____ . Installing and wiring your speakers is an easy and straightforward process. Enjoy your new Teresonic sound!

Your speakers are equipped with highest quality WBT binding posts that are a true five-way design and will accept 6mm (1/4") or 8mm (5/16") spades, 4mm bananas, bare wire etc. There is *no* need for the complicated and extra costs of bi-wiring, there are *no* crossovers to adjust...just connect the speaker cables and enjoy the music.

For optimal results Teresonic "zero interference" Clarison speaker cables are recommended to connect the loudspeakers with your amplifier. Namely, the same ultra-high quality Clarison cables that are used inside the speaker cabinet to connect speaker terminals in the back to the speaker driver. Using the same cables will ensure the same character of the sound and the best overall sonic quality without coloration or distortions

Wiring

Connect the speaker wires to the terminals in the back of the speakers. For the perfect sound experience, the right speaker must be connected to the output terminal marked "R" or "Right" on your amplifier and the left speaker to the terminal marked "L" or "Left". A detail that is often overlooked is connection in correct phase, i.e. the red terminal (+) on the amplifier should be connected to the red terminal (+) on the speaker, and the white terminal (-) on the amplifier should be connected to the white terminal (-) on the speaker. (see Fig.1). If just one speaker in a stereo or surround sound system is not connected in phase, the bass will be weak and the overall sound will be diffuse.

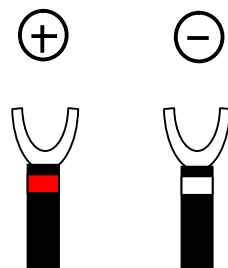


Fig. 1

Installation of Lowther drivers (optional)

Your Magus speakers are usually shipped with Lowther drivers installed, and ready for use. In certain situations, such as to avoid driver damage during the transport, the drivers may be shipped separately in their original packaging. In this case you need to install the drivers – an easy and straightforward process. It will also give you an opportunity to peek inside your speaker's fine acoustic chamber.

Inside the baffle opening you will see two internal cables equipped with gold plated Red (+) and Black (-) O-rings. After cables are properly attached to the driver, they can be put in place in two baffle holes on the left side (see figure 2) and tightened with four screws (provided) using the supplied tool.



Fig 2

Installation and operation

Place the speakers in their approximate location following recommendations in chapters four (Fine Tuning) and five (Room Acoustics) for the best results.

It is worth noting that when the tone controls on your pre-amp are turned above the neutral setting this significantly burdens both speakers and amplifier. In a good sound system tone controls should only be used to compensate for poor recordings and not to permanently compensate for weaknesses elsewhere in the system. Teresonic recommends that the tone controls generally be set to the *neutral* position, and you achieve your desired sound image through correct positioning of the speakers.

Ensuring that you keep the volume low enough so the sound remains clear and undistorted will minimize the strain on both speakers and amplifier. Care should be taken when using the loudspeakers with very high powered amplifiers. Although Teresonic speakers are reasonably tolerant and have power handling of up to 100W, they are also extremely efficient and therefore require considerably less power than most loudspeakers in the market. If audible distortion occurs, the amplifier or the loudspeaker is being overloaded and damage is likely to result.

Should you be unfortunate enough to damage a drive unit either by accident or misuse, please ensure that it is replaced only with an original DX55 Lowther driver. This will maintain the speakers' performance.

Important! Break-in Period

With very few exceptions, dynamic loudspeakers have a break- in period, where the drive units “loosen up”, during this time the bass will not display its full lower bandwidth and the speaker will sound brighter than when “broken-in.” As the suspension material of the driver “softens up”, the fullness of the bass and the smoothness of the treble will start to emerge.

The break-in process occurs naturally as music is played through your system. To reduce the time required, it is recommended that the system be played continuously, using either a digital source in the repeat mode (CD) or an FM broadcast signal (tuner).

1. Your Teresonic speakers went through a 100 hour initial break-in period in the factory
2. Your recommended break-in period is at least 200 hours best accomplished with relatively loud and dynamic source material.

During the break-in period you will notice improvements such as increase in bass content and control, sound image opening up, and the overall sound gaining in better and more involving presentation. It is therefore recommended that the fine tuning of the entire system be delayed until after the break-in period is completed.

Fine Tuning

Following these recommendations is critical to obtaining optimum results from your speakers.

Your Teresonic speakers are among the finest loudspeakers ever designed to offer exceptionally natural sound and the highest efficiency in its class. Still, fine tuning recommendations and room acoustics suggestions are imperative to obtaining the best results. For example, selecting the proper room position for your speakers can dramatically improve their overall performance.

Speaker Placement

Although your Magus speakers may be placed in a wide variety of positions relative to the walls of the room, including corners of the room, it is still recommended to experiment a bit to achieve optimal results. The recommended position is Magus on its stand, with speaker's drivers approximately at the same level as the listener head /ears/. This rule should be also applied if speakers are positioned on a table or shelf. It is recommended that speakers are positioned close to the back wall. This back wall loading will improve the bass response in many rooms. See chapter five for details how to improve the room acoustics.

There is no suggested upper limit for the distances to the walls, even 10 feet to one wall and 15 feet to the other wall will provide good results. However, regardless of the absolute numbers used, the most even bass response will be attained if the distances from the side wall and rear wall are not overly similar. The following points highlight the fundamental concepts in loudspeaker positioning covered in details in the next chapter five:

Positioning (Toe-In)

Adjusting the toe-in angle of the speakers is useful in tailoring the sound to match the characteristics of your system and the listening room. When the speakers are facing straight forward, they tend to create a large, expansive sound stage. As they are rotated toward the listening position, the image becomes more compact, with increased focus, creating a greater sense of intimacy. Pointing the speakers inward is also helpful in situations where strong reflections from the side walls are a problem.

Start with loudspeaker facing straight forward, which is according to our experience the preferred position for listening, i.e. 20-30 degrees relative to the optimal listener position (see Fig.3), and play either a mono source, or a stereo source with a distinct center image (e.g. solo instrument, human voice), through both channels. If the image is not in the center carefully rotate the loudspeakers inward in small increments to bring the image in precise center focus. Toe-in is rather delicate, and experimentation is necessary to achieve proper angle for your listening situation. The optimum angle is usually 3-10 degrees inward



Fig. 3

Once you are happy with the positioning of your speakers, it is important to ensure that they are completely stable. For floor models it is essential that you use the accompanying spikes.

Room acoustics

Listening your Magus speakers in a properly set-up room can be a startling experience. The listening room is the final link of the playback system, as important – or more important, than other components in the chain: 1)Turntable, CD or SACD player, 2)Interconnect cables, 3)Amplifier, 4)Speaker cables, 5)Loudspeakers, and 6)Listening room. Some simple and relatively inexpensive adjustments can lead to superb results as described in chapter five.

Some of the sound you hear comes not from the actual speakers but from reflections from floor, ceiling and walls. These reflections are dampened by objects such as furniture, plants and carpets. If the sound is bright, soft items such as curtains and carpets can help. If the room has large window panes, drawing the curtains will prevent reflections from the glass surfaces.

Both the amount and quality of the bass depend on the size and shape of the room and the position of the speakers. If positioned near a side or back wall, this will accentuate the bass. A corner location will accentuate it

even more, but will also increase the reflections. The decision is yours, so experiment with different positions to find which provides the ideal sound for you.

Adjusting Reflector Plate on Magus Stands

Your Magus speaker stands are equipped with an adjustable reflector plate that can be used for fine tuning to the room acoustics. This isn't replacement for room treatment discussed in this guide and can't provide big improvements as can be obtained with a proper room treatment, but it enables further flexibility in placement of Magus speakers in the room. Again, the decision is yours, so experiment with different positions to find which provides the ideal sound for you.

Taking Care of Your Speakers

Your Teresonic speakers are finished with several layers of a high quality furniture lacquer. Use only high quality furniture polish to properly care for your speakers.

Apply fine furniture polish to a clean, lint-free polishing cloth (or use cotton cloth that is clean and lint-free), and carefully wipe it on the cabinet. Wipe
off the excess polish until the desired luster is achieved.

The loudspeaker drivers require no regular maintenance.

Room Acoustics

Listening your Teresonic speakers in a properly set-up room can be a startling experience.

Every room has its own distinctive acoustics, which influences the way we experience the sound from a speaker. In fact, it's a matter of how the room accommodates the sound and then dissipates it. You can influence the acoustics of your listening room in various ways. Some simple and relatively inexpensive adjustments can lead to superb results.

The great majority of listening rooms are rectangular, with parallel surfaces made of hard materials that are acoustically reflective and can produce standing waves, flutter echo, and unwanted reflections that need to be eliminated. These large areas are the predominant factors in the overall room acoustics, although the other items in the room such as furnishings, carpeting, wall hangings, doorways etc. will also play a role. Here are some recommendations.

Improve the sound stage and image depth

Reflected sound waves that reach the listener within 10-20 milliseconds of the direct signal from the loudspeaker are sometimes called “early reflections” that can reduce the subjective quality of reproduced sound. When a reflected sound reaches the listener more than 40 milliseconds later than the direct sound, the reflection is heard as a discrete echo. This is a desired effect that helps our brain to interpret spaciousness of the room as any musical performance is heard in some room – jazz club, concert hall... However, if the reflected sound arrives within around 10-20 milliseconds, the ear/brain system tends to integrate the two sounds so that only one sound is heard. “Early reflections” in the listening room will tend to obscure the ambient information in the recording (that portrays the original recording site), leading to a loss of dimensionality and spaciousness. Secondary arrivals within the first 10 milliseconds are especially problematic, becoming less troublesome as the arrival time gets to 20 milliseconds or so.

“Early reflections” will tend to diminish the sound stage in the direction of the reflections – “early reflections” from the side walls tend to reduce sound stage width, while “early reflections” from the back wall will reduce image depth. Some listeners are finding that a strong sense of depth enhances the feeling of involvement when listening, due to three-dimensional solidity of images. Therefore, it’s more important to have a greater distance from the speakers to the rear wall than to the side walls. Typically, this is easier to achieve if the speakers are placed along the short wall of the listening room.

Getting fast, tight, realistic bass

The parallel surfaces of most listening rooms can lead to a potential problem in the low frequencies. A sound wave can be repeatedly reflected from opposing surfaces, back and forth. If the distance between the surfaces is a multiple of one-half the sound wavelength, a standing wave will be set up. This means that the incident and reflected waves combine so that a stationary pattern of high and low sound pressures is established in the room. This irregular distribution of sound level is caused by cancellation and reinforcement between the reflected and direct sound waves.

At high frequencies, this pattern of high and low sound pressure levels within the room becomes too finely spaced to be discerned. However, when the dimensions of the room are comparable to the wavelength of the musical notes, there will be obvious changes in the intensity of certain bass notes in different locations within the room. Additionally, the existence of the standing wave implies a resonant condition where acoustic energy is stored in the room. This energy storage can result in “heavy”, “muddy”, or “slow” bass.

Since the presence of standing waves is caused by parallel reflective surfaces, practically every listening room suffers from this problem to some degree. However, several factors are working in our favor here. First, as the room size increases, the affected frequencies become lower and thereby less audibly apparent. Second, the presence of shelving or furniture against the walls will break up the large surfaces, reducing the magnitude of the problem. Third, upholstered furniture can absorb a significant amount of bass, diminishing the build-up of resonant energy. Finally, typical wall construction isn’t completely reflective at low frequencies.

However, in some cases audibly objectionable standing waves will still be present in the listening room. This can be noted by large variations of the intensity of certain bass notes in different areas of the room. Another indicator is an unevenness of loudness of different bass notes. (This is sometimes what is actually on the recording, so be sure that this is consistently a problem on a variety of recordings).

Improve musical detail

Parallel, reflective surfaces can also produce a different audible problem. If there is little absorption at higher frequencies, musical transients containing high frequencies, such as a hand clap or strike of a percussion instrument, can be heard bouncing repeatedly between the surfaces. This effect is called flutter echo (or slap echo), and such multiple reflections can obscure music detail. The situation is analogous to standing between two parallel mirrors, when the outline of your reflections becomes more difficult to discern, due to the additional reflected images present.

Improve sound dispersion in the room

Speaker placement relative to the floor and walls can affect a uniform dispersion of sound in the room. Similar to the way that mirror reflects the light of a light source, so can the surfaces near the loudspeaker reflect the sound waves back into the listening room. There are typically three reflective surfaces near each speaker: the floor, the rear wall, and the side wall. Each of these surfaces produces its own reflections, and hence its own cancellation and reinforcement, as well as changes in sound dispersion. By properly selecting the distances to each surface, we can provide a more uniform sound dispersion. Conversely, improper placement of the loudspeakers can result in uneven frequency response and lower sound quality.

Your Magus speakers have a unique capability to improve sound dispersion in the room when used with dedicated Magus stands. The Magus stands are equipped with an adjustable plate (reflector plate) that allows changes in distance between the port at the bottom of the speaker and the reflector plate.

Technical Specifications

World's most natural sounding speakers provide the highest performance in its class

Magus Speaker – Technical Specifications

One-way stand-mount, bookshelf, or tabletop dynamic loudspeaker

Multi-chamber Compact Monitor

55Hz-22kHz \pm 3dB

98dB SPL /2,83Volt;1m,1kHz/

One 5" Lowther DX 55 driver per enclosure

8 Ohms

Hi-Ferric™ Rare Earth

Tesla

Single-driver, full-range, no crossover

4 - 100 Watts into 8 Ohms

WBT gold plated terminals

Zero interference Clarison cables

15 x 12 x 9in (38 x 30 x 23cm) max. – without spikes

25 lb (10 kg) per pair of speakers

35 lb (22 kg) per pair of speakers

Spikes and floor discs – gold finish, adjustable

Speaker grille – black cloth, removable

Real wood veneer finishes: Rosewood/Black

Specifications subject to change without notice.

Magus Speaker Stand – Technical Specifications

Heavy duty speaker stand with base plate

27 x 10 x 14in (68 x 25 x 35cm) max.. – with spikes

17 lb (8kg) per pair

19 lb (8.5kg) per package

Adjustable reflector plate

Speaker mounting hardware

Spikes and floor discs are provided with Magus speakers

Base and reflector plate are real wood veneer finishes: Rosewood/Black

Stand is black mate

Specifications subject to change without notice.

Warranty and Service

Your Teresonic speakers are made with the highest quality materials and components. In the unlikely event of a problem this product is covered by a full three (3) year warranty.

Your Teresonic speakers are warranted against defects in workmanship and materials for a period of three (3) years, provided that you register on _____ web site within thirty (30) days of the purchase date. If the registration is not done within the 30 days period, this warranty is null and void. A complete statement of warranty is given below. Please take the time to register on the web site.

In the unlikely event of a problem

In the unlikely event of a problem with your Teresonic speakers, the only component susceptible to failure is the drive unit since there are no other mechanical or electronic components in your loudspeakers to guaranty the most natural sound and the highest performance possible. If driver replacement is required, have your dealer contact Teresonic who will provide an exact replacement unit, ensuring continued operation at the highest level of performance and sound quality. The defective driver must then be returned to the factory for inspection to determine the status of the warranty claim. This on-site replacement of the driver unit eliminates the time and expense of shipping the entire speaker to the factory for repair.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE BACK PANEL. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

Warranty Statement

1. Teresonic warrants the materials, workmanship, and proper functioning of this product for a period of three (3) years, _____

If any defects are found in the materials or workmanship of this Teresonic product, or if the product ceases to function properly within the appropriate warranty period from the date of first purchase, the unit will be repaired or replaced by Teresonic or its authorized agent after receiving authorization from the factory or dealer.

2. Purchaser must return the product, packaged in the original shipping box, freight prepaid to:

Teresonic
1215 Fiddlers Green
San Jose, California 95125

3.

4. This warranty is extended to the purchaser and any purchaser from him for value. A proof of purchase (e.g. sales invoice) must be provided.

5. Teresonic strives to manufacture the very finest possible equipment, and therefore reserves the right to make changes in design and improvements upon its products, without assuming an obligation to retrofit such changes upon its previously manufactured models.

Final Instructions

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the manual should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Water and Moisture - The product should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool etc.
6. Carts and Stands - This product is tabletop/floor standing model and no use with carts or stands is recommended by the manufacturer.
7. Wall or Ceiling Mounting - This product is tabletop/floor standing model and is not designed to be mounted to a wall or ceiling.
8. Ventilation - This product should be situated so that its location or position does not interfere with proper ventilation. For example, it should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings
9. Heat - This product should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.
10. Cleaning - Do not use any liquid cleaners. Use only a dry cloth to wipe off dust and grease or high-quality wood polishing products.
11. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled onto the product or into the enclosure through openings.
12. Damage Requiring Service - This product should be serviced by qualified personnel only especially when
 - a) Product has fallen, or liquid has been spilled onto or into the product; or
 - b) The product has been exposed to rain; or
 - c) The product does not appear to operate normally, or exhibits a marked change in performance; or
 - d) The product has been dropped, or the enclosure damaged.
13. Servicing - The user should not attempt to service the product beyond that described in the operating instructions.
14. All other servicing should be referred to qualified service personnel.